

"COLD LIGHT" DEMONSTRATED BY SCIENTIST

Dr. E. Newton Harvey of Princeton Finds New Substance in Sea Near Japan.

NO HEAT IS PRODUCED

Many Commercial Problems May Be Solved After Investigation of Discovery.

By United Press.
PHILADELPHIA, May 30.—Dr. E. Newton Harvey of Philadelphia, a graduate of the University of Pennsylvania, and now a professor at Princeton University, has succeeded in bringing from the bottom of the ocean something that in a different form Benjamin Franklin, another Philadelphian, brought from the clouds.

Where Franklin with his kite brought about the eventual discovery of the electric light, Doctor Harvey, with a fishing net, has brought about the discovery of "cold light"—light that shines continually with no more than a 1-1000th of a degree rise in temperature, and with no "powerhouse" but the air and its oxygen.

In an interview with the United Press Dr. Harvey consented to explain the nature of the discovery and to demonstrate the subject.

He took several pinches of a coarse, granulated substance and put them into one of the round-bottomed flasks in his laboratory.

He then allowed about a glassful of distilled water to run over the powder. There commenced immediately to glow a clear bluish light that lit up the professor's form with a ghostly radiance. Throughout the room there spread an unearthly blue that had a twilight intensity. In the flash itself there appeared points of a blue light that looked like little stars. As the scientist shook the container these points merged with the body of the light, and the entire phenomenon increased in intensity.

After several minutes had passed the light continued to glow as intensely as at the beginning. Dr. Harvey explained that he had succeeded in keeping the glow alive for more than twenty-four hours, and that he was confident he was on the trail of the method for making it entirely continuous.

The real value of the discovery was detected when he had his interviewer place a hand on the flask. It was found then to be cold to the touch.

The substance that Dr. Harvey used was composed of two portions taken from a diminutive shell-fish that near the west coast of Japan and is called the cyprinid. It has the same substance in it that is found in fireflies, but in greater quantity. What makes this substance give off light is the discovery made by Dr. Harvey, who in the experiment described above had duplicated the process. It consists of adding oxygen to the protein known as "luciferin."

When Dr. Harvey has found how to make luciferin without resorting to fishing, and has increased the intensity of its light, the problem of commercial and cold light will have been solved.

UNIVERSITY NEWS

Frank Houston left today for Maryville, where he will play for a dance tomorrow night with the original Quadrangle Orchestra.

Miss Rena R. Jenkins, assistant state leader of Boys and Girls Clubs, went to Fulton today to organize a girls home management club.

Kenneth Hageman, Whipple Newell, William Conrad, Chester Denny and Arthur Wyeth will go to Jefferson City tomorrow to attend a house party at William Tweedie's lodge.

J. T. Alexander of the firm of Alexander, Conover & Martin, live stock commissioners, Chicago, was in Columbia Tuesday placing a value upon the experimental cattle of the College of Agriculture.

Prof. W. A. Albrecht, of the College of Agriculture has gone to Bluffton, Ohio, to attend a meeting of the board of trustees of Bluffton College, of which he is a member. Bluffton College is a small Mennonite sectarian institution. Mr. Albrecht will return Saturday.

E. A. Trowbridge, chairman of the department of animal husbandry in the College of Agriculture, was in Maryville this week attending a meeting of the Missouri Short-horn Breeders Association. Mr. Trowbridge is secretary of the association. The meeting was held yesterday.

D. W. Frear, specialist in field crops, H. M. Garlock, extension assistant professor in animal husbandry, and Miss Addie Root, home demonstration agent, all of the College of Agriculture, will go to Gentry county this week to attend meetings dealing with the alfalfa demonstration work there.

Degree for Governor Hyde.

The degree of doctor of laws was conferred on Gov. Arthur M. Hyde today by Park College at Parkville, Mo., where he spoke at the commencement exercises.

FURNITURE STORES TO CLOSE
Beginning Monday, June 5, and continuing until August 1, we the undersigned Furniture Dealers of Columbia will close our places of business at 5 p. m. Saturdays excepted.

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Bernhardt Still Has Hopes of Making Return Visit to America

By ALICE ROSE
(Written for the United Press.)

PARIS, June 1.—Work for me is life. "I shall go on working until the last breath."

"I do want to visit America again." "Music has no nationality." These were the keynotes of the two interviews I have just had with Sarah Bernhardt.

At the first meeting she received me in her dressing room at the Sarah Bernhardt Theater, where she is appearing in "Regine Armand," a play based upon the mother love of a great actress for her son. Needless to say, the suggestion of Bernhardt's own life keeps creeping across the footlights.

Indelible impressions—of this remarkable woman, seated before her dressing table, playing still more rogue to her red lips, her fingers, arms and neck loaded with stage jewelry, all the artificiality of the theater accentuating for me—the years which her century belies.

It was three days later at her home in Boulevard Pereire that the eternal spirit of youth of Sarah Bernhardt seemed to flame.

Seated in her study, surrounded by papers, manuscripts, contracts, the white satin of her fur-trimmed robes unadorned except for the insignia of the Legion of Honor and two oriental brooches, she was working with astounding fervor.

"I am sorry to have kept you waiting, but I had to finish reading the manuscript of a new play I may use on tour."

Perhaps the look of incredulity that this artist, over whose head has passed three-quarters of a century, whose health has been imperiled by the amputation of her leg should be planning a tour showed too plainly in my eyes.

"Oh yes, I am preparing a tour in France as soon as my thirty performances at my theater are concluded," she repeated.

"I see that the stories of your ceaseless work are not exaggerated," I commented.

"I work too much," she replied, "but work for me is life."

"Are you planning to return to America?"

"Yes, it is possible that I may return. I do want to visit America again."

"But do you not feel a craving for a well earned bit of repose?"

"I shall go on working until the last breath," she replied. "I do not believe in the doctrine of well earned repose. One should never cease working at one's art, giving out what spark of genius still burns, until all is over. I am busy every minute. I have just completed my books, 'Advice to Artists,' 'Every Day I work on my 'Memoirs,' which I hope to complete in a year. Here in Paris my time is engrossed in work of one kind—at Belle Isle there is still another."

I knew she referred to the sculptured tomb—the light-house which she has chosen as her monument on her island home.

"You think that a morbid idea?—of course not," she said. "What finer way to be remembered than by an ever burning flame? And I want to be remembered."

"You are such a patriotic French woman, won't you tell me where you think lies the greatest hope for the drama of the future?"

"In Denmark," she replied without hesitation. "In the theater of Copenhagen we find the greatest expression of spirituality, which mankind needs today."

"America? Oh America is young," she said politely.

"And France—What do you think of the musical entente between America and France expressed in the new American School of Music in the famous palace of Fontainebleau, which France has given over for this purpose? Do you think that France will supplant Germany in its influence on American music students?"

Madame Bernhardt's blue eyes grew deeper beneath their darkened lashes.

"Music," she demanded. "What has music to do with national ententes? Music, like all expressions of genius, has no nationality. The hates and passions of politics should never enter the upper realms of art. Whatever our national sense of injustice, we cannot deny that Germany has given the world magnificent music. Art and genius are constructive forces in life. We have need of all such influences in the world today."

"Artists with their international sentiments have, I think, greater insight than politicians."

She picked up a letter with manicured fingers so heavily rouged as to leave marks upon the envelope.

"They still think of me then in America?" she asked, as we said goodbye.

"I am glad I can't give up my thought of returning there."

MAINLY ABOUT PEOPLE

Miss Margaret Norvell went to Parkersburg this morning.

Walter Braselton went to Centralia this morning on business.

Mr. and Mrs. Schweninger and Miss Maude Grant left this morning for Warrenton.

Miss F. Stewart and Miss Evelyn Spencer left this morning for St. Louis to visit.

C. L. Edwards of the Boone County Infirmary, went to Centralia this morning on business.

Mr. and Mrs. H. S. Smiley returned to their home in Wheeling this morning, after a short visit here with relatives.

Mrs. Ida Colvin returned to her home in St. Joseph this morning, after a short visit with relatives in and near Columbia.

Mrs. E. H. Hawkins and three children left this morning for a short visit with Mrs. Hawkins' sister, Mrs. E. Y. Gossin, of Kansas City.

Miss Anna Mae Bradford left this morning for Morgantown, W. Va. Miss Bradford will be society editor on the Morgantown Post.

Mrs. G. K. Hoblitzelle and daughter, Miss Eleanor, who have been visiting Prof. and Mrs. H. S. Bill, returned to their home in St. Louis this morning.

G. W. Edwards returned to his home in Sturgeon this morning, after a short visit here with his cousin, Leslie Edwards, and his sister, Mrs. T. B. Gentry.

Mrs. T. J. Lowry and daughter, Marie, returned to their home in Huntsville this morning, after a visit here with Mrs. J. E. Wright and Miss Laura Burris.

Mrs. C. B. Dale and two children returned to their home in Brunswick this morning. Mrs. Dale has been here the last few days in consultation with a physician.

Miss Bess McAlester, who has been attending Stephens College has returned to her home at Bovina, Miss. She was accompanied by her grandparents, Mr. and Mrs. W. T. Anderson.

CHRISTIAN COLLEGE NOTES

Miss Lillian Green returned to her home in Sturgeon this morning, after attending the Homecoming at Christian College.

Mrs. Lucy Wright of Smithville attended the Homecoming at Christian College, returning to her home this morning.

Mrs. E. S. Stewart attended the Homecoming at Christian College this morning, returning to her home in Sturgeon this morning.

Mrs. W. W. Greenland of Moberly, returned to her home this morning. Mrs. Greenland is a graduate of Christian College and was here attending the Homecoming this week.

The following students, who have been attending Christian College returned to their respective homes this morning: Miss Marie Peters, Rosendell; Miss Viola Potter, Fayette; Miss Isabel Belcher, Carrollton; Miss Ruth Lester, Hale; Miss Margaret Day, Huntsville; Maurine Helms, Carrollton; Miss Lillian Bogie, Huntsville; Miss Roberta Baldrige, Lar-

CHIROPRACTORS' HEAD



Dr. Charles Rolding was elected president of the Missouri State Chiropractors Association last June. He has practiced chiropractic in St. Louis for seven years, during which time he has been active in legislative work. He is a graduate of the Palmer School of Chiropractic, Davenport, Ia.

AT THE HOSPITALS

PARKER MEMORIAL
Those who were admitted to Parker Memorial Hospital yesterday are: Charles Waugh and Helen Woods. Miss Ethel E. Vogt was admitted this morning. She is being treated for injuries received in an automobile wreck Tuesday evening.

BOONE COUNTY
Those who were admitted to Boone County Hospital yesterday are: Jeanette Roberts, 1609 Richardson street, and Miss Ida Ray Reed, 703 Range line. Mrs. H. E. Stephenson, 1326 Wilson avenue, was admitted this morning.

Roy Richards, 202 Thilly avenue, was discharged yesterday. Mr. Richards has been ill with influenza.

Mrs. Eulah Reid, 505 Lyons street, was discharged this morning. Mrs. Reid is recovering from an operation and is receiving treatment.

Former Student Killed in Texas.
John P. Withers, a San Antonio real estate man who was killed there Monday when struck by a passenger train, was a former student of the University of Missouri. His son A. E. Withers was a student here last term. Both belonged to the local chapter of the Sigma Nu fraternity.

Oscar Koch Here Yesterday.
Oscar Koch, consulting engineer of Dallas, Tex., formerly assistant city engineer of Columbia, was in Columbia yesterday to see about some taxes on his father's property.

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GLOVES SINCE 1854

Next World War Will Wipe Out Whole Cities in Minute and Half

(United Press Staff Correspondent.)

By DAVID L. DRUMMOND
LONDON, June 1.—Drugs and deadly gases will win the next war.

Chemical experts make this statement after carrying to a conclusion experiments dating back into the closing hours of the World War.

They warn the public that another world war would be the most appalling holocaust since the beginning of time. The warning may have been made to back up the prediction of Premier Lloyd-George, who told American newspapermen recently at Genoa that unless the great powers "got together" such a holocaust may arrive within the present generation.

It is admitted that experts have been experimenting with drugs, gases, poisons, air, land and sea monsters. The next war, when it comes, will be so terrible, so searching to mind and body and soul, that after it has swept the world bare, few of the combatants will be left. Gas, fumes, liquid poisons, flaming fire liquids, asphyxiating vapors poured from a high altitude will be the prime features when nations next start wiping each other from the face of the earth, these experts say.

With the instrumentalities already possessed by the great powers, the Woolworth Building, for instance, could be made to collapse like a child's pack of cards on the crowds on Park Row and Broadway.

Just as easily, with these new weapons of torture could thousands of men be frizzled to death under a hail of burning oil dropped from the skies like a summer rainstorm. Similarly thousands could be just as quickly and simply choked to death by a fog of poison gas blanketed on a town of the size of Detroit or Pittsburgh, in the space of one and a half minutes.

There will be no declaration of war, army men believe, when the next Armageddon comes. The first intimation that disaster is on us will be, experts think, a casualty list in the newspapers—a casualty list which will no longer be a recitation of names of killed and wounded.

CHARLES B. PIGG

Teacher of Piano

Phone 587

but of towns blotted out, burnt and destroyed.

"Thriller armed is he gets his blow in first"—to paraphrase an old proverb—will be the motto of the warring parties. Experts know that it cannot be otherwise, especially when the first attack will, in all probability, come from the air.

Air bombardments, British air officials declare, accompanied by air gas tanks will be chosen as the first principal targets.

But that will be just a preliminary to the launching of the giant land, air and submarine offensive, which will cast the world into darkness. With the electric power stations rendered useless by repeated bombing, the nights will be one long horror only rivalled in fear by the terrors which will stalk by day.

BRAZILIAN PRESIDENT TO LEAVE SUMMER CAPITAL

As Season Nears End in Petropolis Travelers Find Climate Is Ideal for Travel.

By MILES W. VAUGHN.
(United Press Staff Correspondent.)

PETROPOLIS, Brazil, June 1.—The season is drawing near its end in Brazil's summer capital and soon the President of the Republic and his cabinet will leave the Palacio Rio Negro on the fashionable Avenida Koehler, to return to winter headquarters in "The Palace of the Eagles," in Rio.

Already many of the wealthy members of the summer colony have departed for Rio. To tourists, however, the present months are ideal for travel to Petropolis, called by the Brazilians Terra das Flores—land of flowers.

One takes a train, at the Praia Formosa 40 Rio on the British owned Leopoldina railway for the two-hour trip to the flower city. After a few minutes ride the train reaches the Rio da Serra and switches to a cog railway for the climb to the high tableland of the summer capital.

The road is like Switzerland, but the scenery tropical. The train is split into sections of two cars each, each section with an aboard looking engine, built high behind for the mountain climb. For thirty minutes the cars climb through a tropic paradise with scenery so fantastic as to be almost weird. Beside the tracks are continuous banks of the beautiful waxlike lily, called Alcafrao, while the forest clad mountains are gayly decorated with clumps of the purple flowered Fede-gosa.

Half way up, the train stops a few minutes at the Meia da Serra, middle of the mountain, where a pirate looking Italian dispenses beer, sandwiches and had Portuguese in a somewhat insanitary cafe which Greenwich Village dwellers probably would call romantic.

In Petropolis the Swiss atmosphere is heightened by German sounding names and numerous tow headed children.

For outings Petropolis is favored. It is close to Rio and has scenery enough to satiate the most hardened tourist.

It is a tribute to the city of flowers that trains returning to Rio always are loaded down with flowers, great clus-

ters of Hortensia, a light blue flower like the snow-balls of the States.

Just now Petropolis is brushing up to receive scores of tourists from the United States who are expected in Brazil for the Centenary Exposition opening next September.

Miss Wheat to Teach in Chicago.
Miss Gladys M. Wheat will again be an instructor at the national institute of the Drama League of America in Chicago this summer, August 14 to 26. She will conduct a course in visual phases of the stage. Miss Wheat's work will deal with the organization and production of plays, their relation to types of communities, the design and construction of stage sets, stage properties and costumes. A notice of Miss Wheat's course appears in The Drama for April.

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Turkish Bath Tablets, all perfumes, cake, 10c; doz. \$1
Imported Castile, cake, 15c-20c
Savon's Vegetable Wonder Soap, cake, 15c; 3 for 40c
Cocoa longbar 10c
Imperial Peroxide, cake 10c
Creme Oil, cake 10c
Dutch Sandalwood, cake 10c
Maxine Elliot, Butter milk, and Rose Soap, cake 10c
Renners', cake 10c

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The mind of 1818 couldn't conceive of the miracles that human ingenuity would perform during the twentieth century. It couldn't imagine the wonders that would be wrought by new agricultural methods and modern manufacturing genius. It was ignorant of transportation as we know it, or the progressive sales methods of today. It could not see the vital part that would be played by advertising.

Even today there are some who fail to realize what an important factor advertising has become. Advertising is as much a part of today's life as electricity, antiseptic surgery or automobiles. It keeps us up-to-date on the many things we need in order to live profitable, happy and useful lives. It presents for our approval articles of all kinds and for all purposes. The requirements of each member of the family are met by advertised offers of good merchandise of proved value.

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